

# Performance Report for Pickering Nuclear

## SECOND QUARTER OF 2008

This report discusses performance for Pickering Nuclear in the areas of safety performance, electricity production, environmental performance, and significant accomplishments achieved during the second quarter of 2008.



### OPG continues to maintain high standard of Public Safety

OPG's ongoing goal is to maintain and continue building a strong safety culture at each of our nuclear stations to ensure that there are no public safety or employee safety concerns as a result of our operations.

In the four decades that nuclear energy has served Canada's electricity needs, no member of the public has ever been harmed as a result of a radiation emission from a nuclear power plant or waste storage facility. An excellent measure demonstrating that the public is protected at all times from radiation emissions is provided by the continuous monitoring of radiation exposure at the perimeter of our stations. Most people are not aware that all Canadians are exposed to naturally-occurring radiation, mostly from the sun and from radon which is found in soil. The average exposure of Canadians is 1,770 microsieverts a year. For example, the food and water we ingest each year accounts for approximately 300 of those microsieverts.

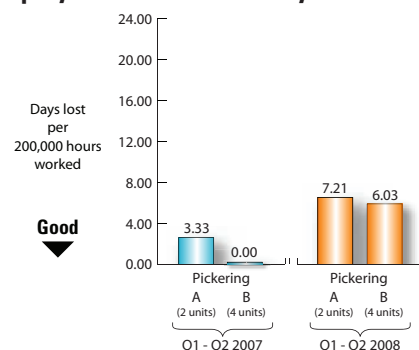
For Pickering Nuclear, the estimated additional exposure during 2007 (most recent data) for people living near the station, based on their actual lifestyle characteristics and food consumption patterns, was 2.6 microsieverts. This is a very small percentage of the amount we each receive naturally and much lower than permitted by regulation.

### Keeping Our Employees Safe

Pickering Nuclear's employee safety performance is measured against other companies. Safety performance is measured by the

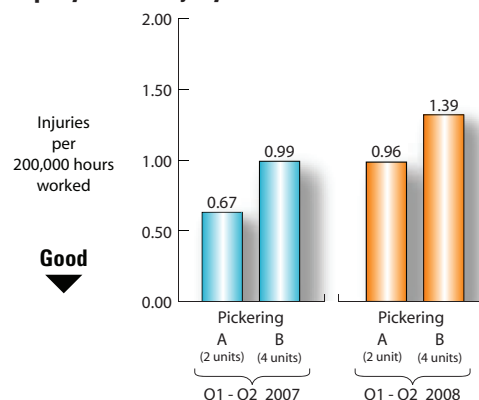
station's employee Accident Severity Rate (ASR), which measures the number of days lost due to injuries per 200,000 hours worked. During the second quarter of 2008, Pickering A and Pickering B registered a significantly higher than top quartile ASR of 7.21 and 6.03 respectively. During the first quarter, two employees sustained musculoskeletal injuries while carrying out their work duties. Increased communications on conventional safety awareness focusing on musculoskeletal injuries continued during the second quarter.

#### Employee Accident Severity Rate



Another key safety measure is the All Injury Rate (AIR) which measures the number of workplace injuries per 200,000 hours worked. Pickering A recorded 0.96 injuries per 200,000 hours worked in the second quarter. This places Pickering A below the top quartile industry performance category set by the CEA. Pickering B registered a higher AIR bringing it slightly above the CEA top quartile performance.

#### Employee All Injury Rate

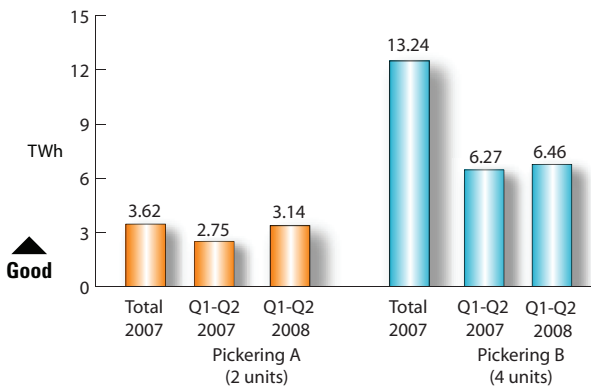


## Safety Milestones

The safety of our employees, like the safe operation of our nuclear reactors, is a top priority in our operation. During the second quarter of 2008, Pickering B employees achieved 1 million hours without a lost-time injury.

## Electricity Production

### Pickering A and B Electricity Production (TWh)

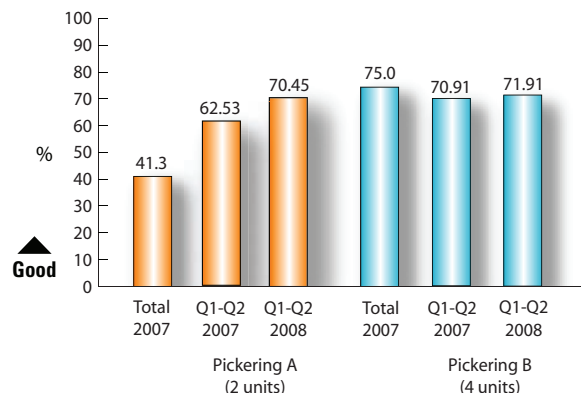


During the second quarter of 2008, Pickering A produced 3.14 TWh generation which is an increase in generation compared to the same period last year. Overall generation production was affected due to an unplanned maintenance outage on Unit 1 which was required for the restoration and maintenance of a fuelling machine.

Pickering B produced 6.46 TWh generation during the second quarter of 2008 which is slightly better compared to the same period last year. Overall generation production was affected due to an unplanned maintenance outage on Unit 7 when a generator was tripped during an electrical testing as part of the planned Unit 8 maintenance outage.

## Unit Capability Factor

### Unit Capability Factor (%)



Another indicator of how well the stations are performing is the unit capability factor – basically a percentage of perfect generation a unit is capable of producing during a specified period. During the second quarter of 2008, Pickering A's capability factor was 70.45 per cent significantly improving its capability factor compared to the same period in 2007. Pickering B's achieved a capability factor of 71.91 per cent achieving slightly improved performance for the same period last year.

## Protecting the Environment

During the second quarter of 2008, Pickering Nuclear did not record any major or moderate spills to the environment.

## Milestones & Items of Interest

Some milestones and items of interest achieved by Pickering Nuclear and across OPG include the following:

- In June, the Pickering B station received its second consecutive five-year licence from the Canadian Nuclear Safety Commission.
- In June, the Province announced the Darlington site as its choice for Ontario's next nuclear plant and OPG as the operator of the two new nuclear units.
- Ontario Power Generation was recognized with a Gold Award at the Electrical and Utility Safety Association's ZeroQuest Ceremony. The award recognizes our safety management system and the strength of our safety culture, based on corporate and site-level reviews at three of our generating facilities -- Pickering B, Thunder Bay G.S., and the Niagara Plant Group.
- OPG's Pickering and Darlington stations were the proud co-recipients of an environmental award from the Durham Environmental Advisory Committee (DEAC). The "Jessica Markland Partnership Award" recognizes the co-operative efforts of those who enhance Durham Region's environment by building partnerships with public, community and private organizations.
- Pickering Nuclear employees raised money in support of charitable organizations in our community and in Asia where lives impacted by major weather events. In a few hours more than \$6,000 was donated in support of The Education Foundation of Chinese Professionals efforts to rebuild schools in China and the Canadian Red Cross' efforts in Myanmar. One team of bowlers raised more than \$6,000 in support of Big Brothers and Sisters of Ajax-Pickering, and four Big Bike teams raised more than \$19,000 for the Heart and Stroke Foundation.

**Do you want to discuss any of our performance results with us? If so, please call us at 905-837-7272.**